MISSOURI BOTANICAL GARDEN

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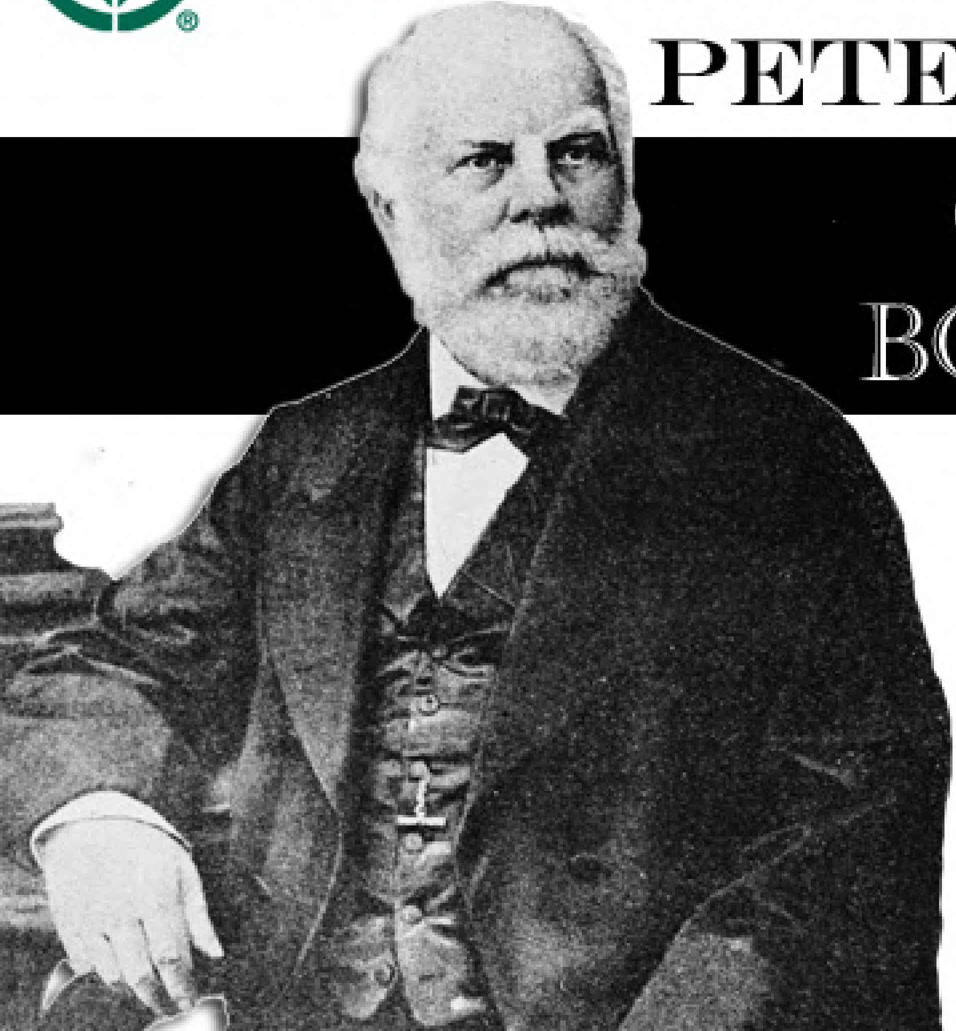

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

Pagination Note:
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19 polycarpa as . peg^{2}

Euphorbia minutifolia

prostrata annua? ramosissima tota pilis patulis brevissimis hispidula

foliis confertis minimis e basi obliqua acutiuscula obovatis obtusis integris

stipulis lanceolatis ciliatis

glomerulis lateralibus sessilibus

glandulis (atro-rubentibus) appendiculis angustissimis

stylis ad basi bifidis ovario ~~hispidulo~~ puberulo longioribus stigmatibus clavellatis.

~~Capsulis~~ seminibus angustis acute angulatis ~~laevibus~~ rugulatis

β. ~~glabrata~~ ~~gracilis~~ ~~subglabra~~ vix puberula, superne glabra, glandulis virescentibus.

~~In the~~ deserts west of California the Lower Colorado β. on the Gila, both collected by Maj Emory Nov 1846, ~~At [illegible] about~~ 6 or 8 inches long, prostrate on the ground, leaves probably ~~the~~ smallest of any of our Euphorbiae largest ones 1 line long, and ½ line wide; anthers ½ line long; seed 0.4 line long. The smoothish form does not offer any other differences than those stated. —

Col Fremont ~~has~~ collected in California 1847 another form which I can not distinguish from this though the internodes are 4 or 5 times as long as the leaves ~~and~~ the leaves themselves a trifle larger and

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6599

the appendages a little larger and notched; the pubescence is the same as in the first form

polycarpa β. semiundulatus
= alsinoides

γ. inconspicua = Wright 1857

δ. pubescens

Emory
minutifolia

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9 polycarpa var. [illegible] undulata ar gep

E. ~~pulchella~~ alsinoides

~~annua~~ perennis? procumbens glab~~rescens~~ s. ~~minute~~ parce pubescula glaucescens, +

foliis e basi obliqua obtusa ovatis obtusis

stipulis ovato-lanceolatis ciliatis

glomerulis lateralibus ~~alternatibus~~ subsessilibus

involucris campanulatis

~~glandulis~~ appendicibus transversim ovatis subintegris v. crenatis; lobis lanceolatis ciliatis

ovario pubescente

stylis brevibus ad basin bipartitis; stigmatibus capitellatis;

caps. acute angulata plerumque nuda

Sem. angustis acute angulatis, ~~parce~~ parce transversim rugosis

Dry soil, about San Diego Cal — plentiful ~~Parry~~ common on Roadsides from there ~~to the Colorado~~ ~~A Schott~~ — — A very pretty little species, densely covered with ~~the~~ ~~[illegible]~~ flowerlike anthodia, — ~~[illegible]~~ Apparently annual, but specimens not sufficiently grown ~~to show~~. stems 3 – 6 inches long; leaves 1 or 1½ rarely 2 lines long; often as well as the stem slightly ~~anthodia with the~~ pubescent; ~~white~~ appendages forming a striking contrast with the very dark green or red glands; capsule often with a little pubescence at base; seeds 0.4 or below 0.4 wide, 0.5 long

Coulters species 1446 seems also to belong here — ~~but~~ it is distinguishable by the smaller appendages, & the less deeply divided styles,

6600

only
stigmata tardily clavellate; ~~seed~~ more

9 polycarpa Benth. Sulph p. 50 as geg

Euphorbia ~~brachystyla~~ brevi micromera Boiss.
E. polycarpa var. Eng. in Bot. Bound. p. 186

annua prostrata glaberrima
foliis e basi obliqua obtusa seu
cordata ovatis obtusis integerrimis
stipulis lanceolatis subulatis
glomerulis laxis floribus lateralibus
Involucris parvulis glandulis minutis
orbiculatis exappendiculatis, lobis
lanceolatis ciliatis
Stylis brevissimis ad basin
bifidis; stigmatibus capitellatis
Capsula acute angulata
Seminibus angustis quadrangulatis
acutis ~~sub~~ breviusculis.

Wright 1854. (453 priv.) San Pedro in Sonora in Pebbles ~~in Conta~~

One of the smallest of our Euphorbias somewhat of the habit of E. herniarioides but with narrower leaves, narrower stipules, & longer acutely angled seeds. ~~Stems~~ spreading in our specimens about 4–6 inches; leaves usually 1 lin long or less, and half as wide. Largest leaves about twice that size. ~~Involucra~~ flowering anthesi about 0.2 lines long. — The most striking character is formed by the 6 globose ~~and very~~ stigmata supported by styles not longer than they are themselves. — Seeds about 0.4 long and half as much in thickness, ~~of~~ the shape and size of the seed of E. maculata, ~~but~~ with the

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same sharp angles; but almost smooth, only with a strong lens and a favorable light indications of crossribs are observable.

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10

a form of polycarpa? or pep

compare E. fimbrilligera Mart Linnaea 19. 407

Euphorbia setiloba

annua prostrata, tota minute pilis saepe glanduliferis
patentibus puberula
foliis minutis longius petiolatis
e basi vix obliqua cordata s. obliqua
ovatis integris.
stipulis minutis dentatis seu vix ullis
glomerulis lateralibus
involucris dorso profunde fissis
appendiculis in lacinias 3-4 subulatas
elongatas ~~fissis~~ divisis
stylis elongatis fere ad basin
bifidis stigmatibus clavellatis
divaricatis
capsula hispidula
seminibus ovatis acutatis
acute angulatis transverse rugulosis.

About Fort Yuma near the
Mouth of the Gila in California
Maj. G. H. Thomas. — A very
pretty little plant, with reddish minute
leaves and long white subulate
or almost setaceous appendages
to the red glands. Stems 3 inches
long, leaves rarely more than 1 line
long; lower ones cordate and
rounded, others oval. ~~Usually~~
Only about 3 male flowers are
found in each involucre as Prof. Torrey
first noticed. Seeds 0.4 long and 0.2 wide.

Allied & appears very much from the same
to E. minutifolia form of polycarpa but widely region
different by the entire not slit
involucre, the subulate appendages,
the few male flowers (in the just named
species I find 6 or 8 of them) and the seed

71 ar pep

~~stellarioides~~

E. ~~Sonoriensis~~ Arizonica

annua erecto patula pubescens
foliis e basi lata subaequali
ovatis obtusis integris pilosis
stipulis inconspicuis
anthodiis alaribus longius
pedunculatis
~~appendicibus~~ glandula purpurea
multo majoribus obovatis subovatis
tubo turbinato brevioribus; postice fisso
stylis erectis ad medium bifidis ovario puberulo longioribus
stigmatibus filiformibus
capsula pilosa
seminibus rugoso verrucosis
angulis acutis crenulatis.

Sierra Janos, Sonora Schott, —
~~a very portion the structure of~~
~~the~~ Stems 4-5 inches high in
the single specimen collected
leaves 3-4 lines long 2½-3 l. wide,
almost regular; ~~anthodia~~
on somewhat more slender petioles
than is usually seen in this section.
Stipules almost none, rudiments
hidden in the pubescence.
Peduncles longer than the petioles and
longer than the anthodium, which
without the app. is about a line
long; with them 1½ line in diameter; the glands are purple
the app. purely white
Seed over 0.4 line long, oval
but sharp angled, and rough

6603

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ar pep

Euph. pediculifera

annua (?) tota tenuiter cinereo-puberula procumbens

foliis e basi obliqua obtusa -ovatis ~~s. obliq~~ obtusiusculis integris
stipulis e basi lata lanceolatis
glomerulis pauciflori in ramulis
alternis terminalibus
Involucris hemisphaericis,
glandulis magnis appendicibus
transversis crenatis
stylis patulis pubescentibus
ad basin fere bifidis stigmatibus
divaricatis. ovarium superantib.

Capsula acute angulata pubescente
seminibus compressis angulatis
c ~~transversim profunde sulcatis~~
sulcis 4 ~~transv~~ profundis transversis
incisis ~~et quasi 5 lobis~~

Wright 1848 in part (532)) Sonorita Creek Sonora

Schott Pozo verde, Sonora Thurber

a slightly canescent ~~puberulent~~ plant
spreading ~~8~~ 6–12 inches;
leaves 3–4 lines long, oblique
ovate almost ~~deltoid~~ acutish
involucre large, styles large and
conspicuous. Seeds very remarkably
0.7 × 0.3 – ~~also~~ deeply
divided by the 4 crosswise
~~cuts~~ incisions into 5 lobes
giving them the appearance of some insect

6604

~~5~~ 13 ? geg

~~16~~ E. fruticulosa pag 6

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14

buxifoli

Euph. glabella Sw.? 0.5 9e/s

fol conduplicatis — prostrata
buxifol fol planis erecta

which? perhaps the last ?

~~Erecta~~ Annua erecta glaberrima.
foliis ~~integerrimis~~ coriaceis vix obliquis
cordatis ovatis acutiusculis
integerrimis ~~coriaceis~~
stipulis triangulari lanceolatis
fimbriatis laceris
anthodiis alaribus
involucris turbinatis glabris
angustis appendiculatis
stylis ovarium subaequantibus
erectis ad basin bifidis
stigmatibus erectis filiformibus
seminibus subglobosis
dorso carinatis lateribus seu
minute vermiculosis.

Key West Florida Mr Blodgett.

~~Perhaps~~ Plant very much of the habit of E. hypericoides; Stem ~~erect~~ of the only specimen before me erect, stout ~~very one~~ about 1 foot high.

Leaves 5-7 l. long, 3-4 lin broad, deeply and almost equally cordate, thick and leathery. — Seeds pale rose colour 0.6 l. long and rather less than 0.5 thick. — Eu. glabella of the West Indies is described as a plant with small and crowded leaves neither ~~of the~~ which is ~~not the~~ the case with our plant but it may nevertheless be the same ~~plant~~ species.

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18-b

glabella

Euphorbia ~~nodosa~~

suffruticosa patula s. diffusa
glaberrima caule ~~foliis dividuis~~ plus minus nodoso
foliis e basi obliqua cordata s. ovato-lanceolatis
(~~semi~~ ~~superioribus obtusis~~) ~~ovatis~~ acutis integris
~~s. ovato-lan~~ ~~et superioribus lan~~
~~obtusis, lanceolatis int~~
stipulis late ovatis fissis
angustis s.
glandulis angustissimis viridescente
marginatis,
stylis patulis ad basin fere
bifidis, stigmatibus filiformibus.
Capsula obtusa s. subacute-
angulata
Semina ovatis ~~angulatis obtusis~~
tuberculatis s. exsculptis

~~A half shrub found on~~ Keywest, Fla
by Mr Beaumont & Dr Chapman; —
A half shrub, 6–10 inches high,
spreading and somewhat decumbent;
Leaves 2–4 lin long & 1–2 wide
Seeds between 0.5 and 0.6 long
and 0.4 thick irregularly quadrangular
partly pitted and partly tuberculate.

distinguished by
Near E. [illegible], but leaves
entire, (seeds rough,
cordate and acute, styles spreading)

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6607.

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15 E. Fendleri Torr & Gr. -or- 9e/p

~~E. saxicola~~ non Boissier

(E. rupicola) Scheele in Linnaea

perennis erecto-patula seu ~~procumbens~~ glaberrima

foliis e basi obliquis orbiculatis seu ovatis obtusissimis, margine integro revolutis;

stipulis subulatis parce fissis

~~axillaribus~~ glomerulis laxifloris lateralibus s. plerumque terminalibus

involucris ovatis s. turbinatis glandulis magnis inappendiculatis lobis ovatis ciliatis;

stylis brevissimis patulis apice vel vix ad medium bifidis stigmatibus ~~incrassatis~~ clavellatis

capsula acute angulata, seminibus ~~angustis~~ elongato ~~elongato~~ ovatis acute angulatis leviter obtuseque transverse rugosis.

β longiloba foliis e basi obliqua obtusa ovatis s. lanceolatis falcatis obtusis ~~acutiusculis~~ s. plerumque acutis stipulis subulatis subintegris ~~stylis patulis brevibus vix ad medium bifidis, stigmatibus~~ ~~involucro turbinato~~

capsula angulis subacutis seminibus elongato ovatis acute angulatis

involucro turbinato glandulis minoribus appendicibus triangulatis productis integris s. bilobis

On rocky soil, N. Braunfels Texas
Lindheimer Fendler N.
Wright „on the Mountains"

6608

Texas Lindheimer 531

Common in Sonora Thurber 407

on the ~~upper Colorado springs~~ ~~Hitt~~

~~North~~ New Mexico Capt. Pope, Fendler

and to the sources of the Platte River Dr Marsh

~~Eagle pass~~ Eagle spring rocks

Wright 1852 (536, 1851)

is a transition form smaller almost inappendiculate involucre, longer narrower leaves

(No 1198) El Paso Mtns

Wright 660. 1849 with very

β narrow leaves

Frontera, Bigelow, Parry

Wright 1847 (100) Frontera

Sonora Thurber 408 & 990

Santa Fe Pl. Fendler 800

on arid hills

Prairies, Limpio

Wright 1851 (479. 1852)

~~Numerous~~ slender stems (2–4 inches high) from a thick ligneous root; leaves thick and form very variable from orbicular to nearly linear; in var. α they are usually short and roundish, 2 lines long and not much ~~shorter~~ less wide; involucre ~~larger~~ and more ~~flat~~ or even hemispherical, glands large without any or with a very narrow appendage. Seed thick only 0.6–0.7 lin. long. In β leaves 2–4 lin long, 1–3 lin wide; involucre a little smaller and longer; glands smaller usually with long greenish or red appendages; seeds narrower and longer, 0.8 l. long, 0.4 in diameter. —

~~A~~ intermediate forms, with short leaves and small transverse appendages or with long narrow leaves and without appendages (Wright 1852) ~~further~~ unite the two extremes

In this species and especially in β. I find the few calyx unusually developed; it is always large and cupshaped but occasionally I have seen 3 blunt short lobes corresponding with the corners of the ovary, and three long subulate ones alternating with them.

16 albomarginata Torr & Gr. ats gep

~~E. stipulacea~~

perennis procumbens (glauca et glaberrima)
foliis carnosis e basi obliqua obtusa
s. subcordata ovato-orbiculatis
integerrimis s. margine cartilagineo
leviter crenulatis
stipulis connatis lato-ovatis subintegris membranaceis
anthodiis pseudo-axillaribus lateralibus laxis
demum in glomerulos
foliaceos confertis
appendicibus glandulam magnam
orbiculatis s. transversis
integris s. crenulatis, tubo hemisphaerico brevioribus
stylis filiformibus elongatis
ad medium s. ultra bifidis
stigmatibus clavellatis;
capsula acute angulata
seminibus angustis acute 4 angulatis, laevibus

4 Chihuahua to Saltillo & Gregg.
3 El Paso etc Dr Bigelow   Wright N. 1850. in part.
Copper mines " "   in part Torr. & Gr.
5 Fremont 1846 1849: 428, 1844
2 Western Texas (Wright anno 1849. N. 559) Pope's Exped. (a small leaved form of A (priv. 414) Leona, Texas ~~1851. N. 55~~
6 { California Wallace
Los Angeles Rich
1 Texas Drummond II. 330

β. Gregg in the valley of the Nazas,
Schott. Sonora
Wright 1850 in part;
Hartweg 33

β minor, foliis ~~minoribus~~, anthodiisque minoribus; ~~stylis brevioribus~~ appendicibus brevioribus truncatis crenulatis; stylis brevioribus.

It a very striking plant with a strong perennial root, and very glaucous foliage

6609

large white stipulae
large antheridia with large dark
green (black when dry) glands and
unequally crisped white appendages
leaves 2–3 l. long and a little less
wide; ~~styles very slender~~; seeds
0.5–0.6 l. long, narrower than in
the allied species

Var β. is a smaller plant,
with much smaller leaves and flowers,
the former only about 1 line long
— Mr Wright's ~~has sent~~ No 4850
~~contains specimens~~ partly belong
here; his specimens are annuals!
2–3 inches long

The plant is sometimes ~~tufted~~ sub erect,
but often long ~~procumbent~~ runs over
the ground, showing on the underside of
the stems just under ~~both~~ leaves
gland-like protuberances which ~~often~~ emit roots
in favorable positions

0/56

172 gr gep

E. astyla

perennis multicaulis erecto patula
~~glaberrima~~ glauca
foliis coriaceis e basi profunde
cordata subobliqua reniformibus
(margine cartilagineo subcrenulatis)
stipulis connatis latis fimbriatis
anthodiis alaribus
~~glandulis~~ appendicibus involucri hemisphaerici transversis
crenulatis
~~Stylis~~ stigmatibus 3 capitatis
sessilibus
capsula obtuse angulata
sem. angustis ~~[illegible]~~ transverse foveolatis
angulis acutis crenatis

Valley of the Nazas in S.E. Chihuahua
Dr Gregg, mixed with E. stipulacea

Single specimen of this singularly
characteristic plant; large
perpendicular ~~perennial~~ thick root
stems 2 inches high — leaves
2 lines long & wide; appendages
conspicuous but much smaller
than involucrum; stigmata
~~very~~ unusually large and quite
sessile! seeds 0.7 l. long
linear with concave ~~side~~
strongly grooved sides and
very prominent crenulate
margins. Very near E stipulata
but by the stigmas and seeds
abundantly distinguished.

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6610

18. floribunda. $\overset{ar}{\text{pyp}}$ $\bar{3}$ gēp

6611

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19 melanadenia Torr as pcp^{2}

Euphorbia cinerascens

Perennis erecto-patula s. subdecumbens pilis adpressis puberula canescens

foliis e basi lata subcordata obliqua ovatis s. suborbiculatis obtusis integris, supra glabratis;

stipulis lanceolatis minutis mox deciduis;

glomerulis lateralibus

involucris canis glandulis (plerumque purpureis) ~~minutis~~ angustissime marginatis

stylis brevibus patulis pilosis ultra medium bifidis ovario brevioribus; stigmatibus clavellatis divaricatis

capsula acute angulata cana

seminibus ovatis acute angulatis laeviusculis.

Monterey Mex. 50, on the ramparts of Bishops hill, Dr Gregg.

All

Wright No 1850 in part (1851)

" 559 " " (1849

~~647 Wright~~ San Felipe east of San Pedro

Bigelow sandy plains, mouth of Cañon, N Mex. June 26. 1852

Wright: hills near painted Caves near Devils River July 8 " Rio Grande 1848," "eastward to the Colorado" — W. 134 pr.

β. ~~Appe~~ndiculata foliis utrinque cinereis, appendicibus glandula majoribus truncatis crenulatis; ~~styli~~ stigmatibus longioribus;

Bigelow, San Gabriel California

6612

A very pretty species 4–6 inches high — the rounded greenish leaves often turning red; leaves usually 1½–2 lines long a little less wide; flowers apparently sparingly. Seeds 0.5–0.6 l. long sharply angled.

E. tomentella

^{2}(erecta) ^{3}suffruticosa ^{1}multicaulis,
e radice perpendiculari lignosa
tota cano-tomentosa
foliis e basi obliqua ovatis
obtusis (crassis) integris
stipulis lanceolatis glanduloso-
dentatis
~~involucri~~ glandulis 1-4 anguste
appendiculatis
stylis villosis fere ad basin
bifidis ovario brevioribus, stigmatibus
flabellatis divaricatis
seminibus (~~angustis~~) (subovatis) obtusius
angulatis laevibus

Montanas
On the Hacienda Vanegas
in the State of San Luis Potosi
Berlandier's No 1358 — Stems only
about 4 inches high erect; very numerous;
leaves 2 l. long 1 l. wide, thick and ~~very~~
~~thickly~~ (tomentose; grayish)
Near E. cinerascens, distinguished
by its ~~ligneous~~ suffrutescent stiffly erect growth
its thick tomentum on every part
of the plant and the ~~unusual~~
conspicuous glandularly ~~pectinate~~ toothed stipules

6613